Accepted / Filed

DEC 13 2016

Federal Communications Commission
Office of the Secretary

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US BANK/FCC

READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE
FORM 159

Approved by OMB 3060-0589 Page No 1 of 2

			23	SPECIAL USE ONLY		
979097				FCC USE ONLY		
	SECTION A	- PAYER INFORMATION	ON			
(2) PAYER NAME (if paying by credit card ento				UNT PAID (U.S. Dollars a	nd cents)	
Mark G Hammann			\$195.00-	200.00	M. H	10-6
(4) STREET ADDRESS LINE NO.1 21405 Alum Creek Ct.						1 1
(5) STREET ADDRESS LINE NO. 2						
ர் city Ashburn			(7) STATE	(8) ZIP CODE 20147		
(9) DAYTIME TELEPHONE NUMBER (includ	e area code)	(10) COUNTRY	CODE (if not in U.S	.A.)	1,2, 2 a a c	5 2 2
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(13) APPLICANT NAME			, 502		Contract of the second	
Marine Instruments S. A.	<u> </u>					
14) STREET ADDRESS LINE NO.1						
1405 Alum Creek Ct.					*	
15) STREET ADDRESS LINE NO. 2						
16) CITY			(17) 00170	1 (10) (27) (2.22		
Ashburn			(17) STATE	(18) ZIP CODE		- 1
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CERTIFICATION STATEMENT	SECTION I	D-CERTIFICATION				
MARCHAMINENIN.	ertify under penalty of perjury th	hat the foregoing and supp	porting information	is true and correct to		
he best of my knowledge, information and belief	Of					- 11 L
IGNATURE G. D		\geq	DATE 21 S	Sept 2016		
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September 25, 2016

RECEIVED & INSPECTED

Federal Communications Commission 1270 Fairfield Rd Gettysburg, PA 17325-7245 Attn: WTB-TSI Daniel McCleary

FCC-GBG MAILROOM

SEP 28 2016

RE: Request for Waiver to CFR 47 Part §2.1055 and §80.209

Device Model /M3P/M3P-T GPS HF Radio Buoy for Commercial Fishing Operations

This correspondence is to request a waiver of the technical requirements governing private communications in FCC Rules Part §80.209 related to commercial fishing operations and "associated ship units".

The device is an HF radio GPS buoy which is used to tag the location of gear used in coastal and high seas fishing operations. The buoys are attached to the fishing gear in order to facilitate safe and efficient recovery, to prevent gear loss, navigational risk, and ghost fishing.

This is radio determination buoy operating at 26MHz. The FCC granted a waiver on the frequency (DA 16-219) stating that we are exempt for Part 80.373(c) frequencies. It also states that the remaining requirements of Part 80 Subpart E be met. The device is FSK which would give a F1D designation.

We request a waiver of the following two technical specifications:

§2.1055 Measurements required: Frequency stability.

- (a) The frequency stability shall be measured with variation of ambient temperature as follows:
- (1) From -30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section

§80.209 Transmitter frequency tolerances.

(3) Band 40	3) Band 4000-27500 kHz:		
(i) Coast stations and Alaska fixed stations:		
	For single sideband and facsimile emissions	20 Hz.	
	For narrow-band direct printing and data emissions	10 Hz.²	
	For digital selective calling emissions	10 Hz.	
	For Morse telegraphy emissions	10.	
	For all other emissions	15 Hz.	
(ii) Ship stations:		
	For transmitters with narrow-band direct printing and data emissions	10 Hz. ²	

Waiver Request

The technical provisions that we are requesting are as follows:

- 1. In Part §2.1055 we request a test range of **0-40°C** in leau of -20-50°C according to operations in the ocean.
- 2. In Part §80.209, we request a tolerance of **50 Hz** in leau of 10 Hz between the temperature range of 0-40oC which is the operational range of our equipment.

Brochures describing the device are attached. These buoys form part of the ocean fishing gear and daily fishing operations. Transmissions are <1 Watt, and 3.9 seconds in duration every 5, 10 or 15 minutes (configurable). Data are received by the standard SSB HF radio located on the vessel or our model MIR5000 SSB receiver and decoder box.

Explaination:

In recent testing we found our buoy has a 200 Hz deviation in the transmitted frequency with temperature change. We have found a way to meet the rule specification of 10 Hz but at a low cost/benefit balance. Frequency variability is not critical to the system's operation and not a risk to other devices given the short 3.9 second transmission every 10 minutes (can be configured for every 5 or 15 minutes); we must pass the price increase on to the fisherman as a higher sale price. However, we have located a more cost effective component that will limit to variability to 50 Hz with no additional cost to the end user.

Benefits of this system include:

- Faster and safer recovery of fishing equipment,
- Faster recovery of the catch enhances quality, and reduces mortality of bycatch,
- Reduction of fuel consumption and the carbon footprint of the vessels,
- Reduction of lost fishing gear preventing 'ghost' fishing posing a threat to wildlife,
- Reduction of lost fishing gear that could cause hazards to navigation.

Please contact the undersigned if you have any questions,

G.M

Sincerely,

Gregory Hammann

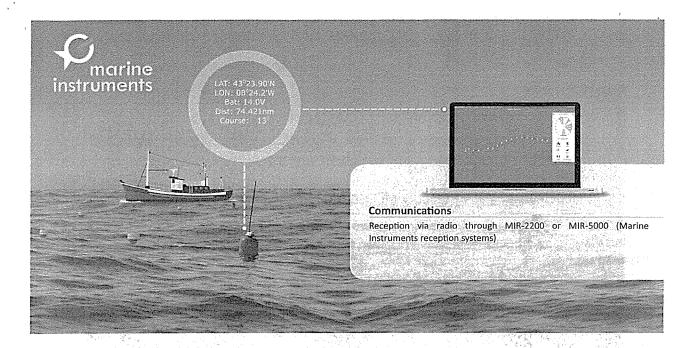
Director Strategic Business Development

ghammann@marineinstruments.es

Marine Instruments 21405 Alum Creek Ct.

Ashburn, VA 20147

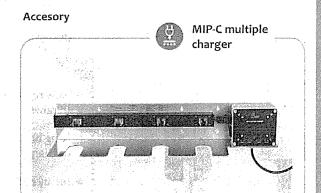
+1-703-309-3738



Technical characteristics

Frequency of transmission 26 MHz Battery Rechargeable through the antenna Weight Buoy: 1,6 Kg Tube: 3,5 Kg. Working temperature 0°C a +50°C Immersion guaranteed 100m Range 50 miles Dimensions





- Allows the independent and simultaneous charge of four M3P buoys.
- Individual LEDs to indicate the charging status of each buoy.
- Battery maintenance current to avoid battery discharge.
- Stainless steel high quality stand.

M3P v102 EN